

DPP4 1MTPFV L L L CA A L Y T
 DPRP1 1 MAAAMTEQLGVEFE D C E N E S D R P K E E F Y E R Y S S S L A K H A D E R K H Y A M
 DPRP2 1T A T T G P R A D R G D A A A T D D P A A R C Q R H S D G E R S H R C S K S L I V
 DPRP3 1N Q A S V S H K C P S K T K E L G S M S P P O R M K C H A T A L L V I L V C S

DPP4 20 I I T V P V V L N G T D A T A D C R T T T T D . . . L K N . . . T R L K L Y S E R W I S E H E Y L K R E N
 DPRP1 61 A K A H D G E F V E R N E P D G P H S D C T Y Y M S G E N R E N E L Y S E I P K T I N R A V I M A W P L L
 DPRP2 50 N K A P H D Q F W K D D G G P H S H E F Y L G M P Y G S R E N S L Y S E I E K F K S K E A L L P S W K G M L
 DPRP3 48 I I T M S V I L S P . . C E L T N S S E T R L S . E D . . L E R K E . . . V L H D . P E A R W I N T D W V S E N

DPP4 75 . N L V F N A Y C N S F L N S T D E E C H I N P S I S H D C Q L L E Y Y Y K O M H S Y T
 DPRP1 121 . D F O R T H Y G Y S E E E L I R E R R I T V I A S Y D H O G . S E T I F O G G S G G V E V G G P
 DPRP2 110 . D F O R T P H H Y Y S E E E L I R E R R L E V E G I S Y D H S E . S L I F O S S S E S L C A G G K
 DPRP3 101 G H T I K L N E T N A T L E N T I V E . . K S R H S S S D L K V L L A Y V K Q I E H S Y T

DPP4 130 . S P D L E N K . . . R E I T E E R I E N T Q W V T S P V G H K A Y W I N D I Y K I E P N L P S Y R L
 DPRP1 179 Q G T Q O Q E E . . . N L E T S C P N I S . D P K K C P A P D W I A E H S N D I S N I V R E R R L T
 DPRP2 168 N G E W S M E A . . . L E K T Q C S C E . . P K K C P A P A E S E N I S E R I A N E C E P R R L T
 DPRP3 155 . S M V I N D I T R E V W G N P P E V E D S V L Q Y A A W G V Q Q C I E E N N I Y Q P D K S S S L R T

DPP4 187 . E G K S I Y N S I T D W V Y E V I S A S L L K S N C H E I Y A . . O F N D T V P
 DPRP1 235 . V H S E A R N E D A R S E G N A T V L O E P D R S E K W C K K E T T E . . G I E K I L Y E N E S
 DPRP2 224 . C H G S N V L E D P K S E G N A T V I O E P D R S E K W C K K E T T E . . G I E K I L Y E N E S
 DPRP3 215 S G K P I I F N S I A D W L Y E E L L H S H I A H S E D E R A F I N D S L V P

DPP4 235 I H E Y S F Y S D E S I Y P K T V R V P P A G A W N . . . T V A F V V N D S L S S T N A T S I O T A P S
 DPRP1 294 E V E I E V T S E M I T R A D S E R V E A T E A N P A M I E M S E H M I E E R H D V I D K E I K O P P E
 DPRP2 284 E V E I E V S E A L E R K I D S R V P R T S K N P G A K K A E F U D S Q E R V S Q E K I M O P S
 DPRP3 263 T V V P R F T G A Y P . . K G K C P P P A S Q V N E . . T E K L A V V L Y G P A T L E I P E D S

DPP4 293 . I I G . D H I C D V T A I Q . E R I S H O R R I N
 DPRP1 354 I L E G V E Y I A R A G W T P E C K Y A S T I L D R S T R I Q V I S S E L T I V E D V M E P O R L I E S V
 DPRP2 344 S H P K V E Y I A R A G W T R D G Y A W A M E D R P O E W I O V L E P A L F I S T N E E Q I A S A R A V
 DPRP3 314 F K S R . E Y I T M V K V S N . T K T V R T E R P O N

DPP4 322 . Y S V G O U D V I E S G R A N C I V A R C H E M S T I V W G R F R P S E H F T L D G N S Y K I I N E . .
 DPRP1 414 . D S V T E I I I E E S D I A I N H D I F H Y F F O S . H E E E I E I F A S C K G F R P K K T S E . E
 DPRP2 404 . R N C Y V V V E E V I N W A I N H D I Y P F F S E E D L C E R A N C K T G F C D K W T A V L N S
 DPRP3 343 . I S E I T V C E T T T G A C S K I Y E M T S E T W L S Q O N E . E V F S R D G S K E M T V E V K O G

FIG. 1A

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DPP4 379 E.....EERHICYQIDK.....CTEIKKTEVEE.....EATISYLYIYISSEYK
 DPRP1 473 SKKKRSGGLAPSPKCPKTA.....EETATISGEWEVSHRHGSKNQVDEVRRELVPESTR
 DPRP2 464 QGQDWSEPFSSGEDHPCPTK.....EETATISGEWEVSHRHGSKNQVDEVRRELVPESTR
 DPRP3 394 GR.....EERHICAMLIQSSEQITVRHITSGNVEIK.....TEAYHFTQKHLPLSTE

DPP4 424 GMGGGNLYKQIOLSDYTKTCSEELNPERCQYYSVFSEKAKYQIINSECHSEYTH
 DPRP1 529 CSPLEHLYVVSYPNPCEVTRHDCVSHSCISCCHCDFKSKYINQNTLHCVSHYKLS
 DPRP2 520 CSPLEHLYVVSYPNPCEVTRHDCVSHSCISCCHCDFKSKYINQNTLHCVSHYKLS
 DPRP3 445 SSRGGLIYLSASTTELLNRQCSNFMKEQCHFDATFSPNQHFILFCEGRVEVVSILH

DPP4 484 GSVNKGILWLEDNSADKMLQN..VQVSKKLDSEINENETKENVQMLPHFDKSKKYF
 DPRP1 588 GPDODTCTTKPEWALHDSGLPDPYEPETSESTTGETYQMLYKPEHLOPGKKYE
 DPRP2 579 GPDODLHQPPEWASDEPASCPEYVWEPPEFTHHRSIVRLYGMKPHALQPGKKH
 DPRP3 505 STNPAKYETHSNSMKKAILKKIGK..EIGTHIDQDELPLQSLKPEMDRNOVA

DPP4 542 LKLVYEGHCSKKAIVTE..LNATYLAENETVASFCGRGSGEODIMHAINRRLG
 DPRP1 648 TALEYGGPQWQVNSSEKGLVRLNLTLSIGAVITDGRGSCORGLRFFGAKNOMG
 DPRP2 639 TALEYGGPQWQVNSSEKGLVRLNLTLSIGAVITDGRGSCORGLRFFGAKNOMG
 DPRP3 563 LKLVDEEESGLVTDKE..IDQSVLIDMDNVVARFPCGRGSGEQLLILQETRRFG

DPP4 600 TEVECOVEARQSSVMGFMNKAHIAVWISYGGYVTSVLCSSGFFRCETAVAPVSR
 DPRP1 708 QLEEDQVEECCLYLSNLDLIDCAVSHCMSYGGYLSLAHNRSDRIVAVIACAPVTL
 DPRP2 699 QVEHECOVECLQVABKRGQIDLSVAITGMSYGCGLSLGLHHPQVFFAVIAGAPVTV
 DPRP3 621 SYENKQOITAVKFTLALPVLISKRLSFKKGIGYVASSIIRDEKIPACGCVVAFID

DPP4 659 DEYQSVYTERYMGHTPEERLDHNRSTMSRAENFKOVEYLTHTGADENVHFOQSLQ
 DPRP1 768 QLENDQGYTERYMGHTDNEGGYLLSSVAKQARFSEHRLDLHAGLDENVHFAHNSI
 DPRP2 759 KMAIDQGYTERYMGHTENNCHGYEASVAVHVERLNEPRLLDEHGLDENVHFTQNF
 DPRP3 680 LKLVASAESRYVCMSEKES..TTCASVPHNVHGLKEENLVKHTADTKVHFOQABE

DPP4 719 ASKALNDVVDIEMAMWTDDEGASSTHCHLYTHSHSEKQFSLP.....
 DPRP1 828 LLSLVRACKPVDLQITPERRSTVPESGEHTLHLLEVLQENISRLAAKVI.....
 DPRP2 819 LVSQLRACKPVOLOIYPNRRHSFCPPESGEHVEVTLHLFLOEY.....
 DPRP3 738 LKHLERAGVNTMAYPDEGNNSSEK..KYLKLYSTHKLFSCEKEEVSVPQEPDEDE

FIG. 1B

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hDPRP1 1 MAAMETPQLGVEIFETACLEN.ITESQDRFKLEPPFYNERYSUSQLKXLLADTRKYHGTY
 mDPRP1 1 MAAMETPQLGVEIFETACLEPCNGESQDRFKLEPPFYNERYSNSQLKXLLADTRKYHGTY

hDPRP1 60 MAKAPHDFMFVKRNPDPGPHSDRYYLAMSGENRENTLFYSEIPTKTNRAAVLMLSKPL
 mDPRP1 61 MAKAPHDFMFVKRNPDPGPHSDRYYLAMSGENRENTLFYSEIPTKTNRAAVLMLSKPL

hDPRP1 120 LDFQATLDYGYMSREEELLREKRIGTVGIASVDYHGSSTFLFQACSGTYHMDGGFQ
 mDPRP1 121 LDFQATLDYGYMSREEELLREKRIGTVGIASVDYHGSSTFLFQACSGTYHMDGGFH

hDPRP1 180 GFTQOQLRPNLVETSCPNIRMDPKLCPADFDWIAFTHSNDIWSNRYTREERRITYVHNE
 mDPRP1 181 GFTQOQLRPNLVETSCPNIRMDPKLCPADFDWIAFTHSNDIWSNRYTREERRITYVHNE

hDPRP1 240 LANMPEELARGACVATEVLQEEFDYSGYKWCQKAEITPSGGKILRLIYEENDESEVEIHH
 mDPRP1 241 LANMPEELARGACVATEVLQEEFDYSGYKWCQKAEITPSGGKILRLIYEENDESEVEIHH

hDPRP1 300 VTSPLMLETRRADSFYRPKYGTIANEKVTFKMSERLIDAEFRIIDVDKELDQPEILLFEGV
 mDPRP1 301 VTSPLMLETRRADSFYRPKYGTIANEKVTFKMSERYVVDAGGRIIDVDKELDQPEILLFEGV

hDPRP1 360 EYIARAGNTPPEGHAWNSILLDRSQTHQIIVLISPELPIPVEDTMDRORLIESVPDSVTF
 mDPRP1 361 EYIARAGNTPPEGHAWNSILLDRSQTHQIIVLISPELPIPVEDTMDRORLIESVPDSVTF

hDPRP1 420 LIIVEETTDIWINIRDFHVFPQSHSEETEFIPASECKTGFRHLKITSILKESKYRBS
 mDPRP1 421 LIIVEETTDIWINIRDFHVFPQSHSEETEFIPASECKTGFRHLKITSILKESKYRBS

hDPRP1 480 GGLPAPSDFKCPIKEEITITSGEWELVGRHGSNIWDEPRRLVYFEGTKDSPLEHLNIVT
 mDPRP1 481 GGLPAPSDFKCPIKEEITITSGEWELVGRHGSNIWDEPRRLVYFEGTKDSPLEHLNIVT

hDPRP1 540 SVNPGEVTRLTDRGYSHSCCHSRHCDFFIISKYSNQNPHCVSLYKLSSPEDDTCKTKR
 mDPRP1 541 SVNPGEVTRLTDRGYSHSCCHSRHCDFFIISKYSNQNPHCVSLYKLSSPEDDTVHKTKE

hDPRP1 600 FWATILDSAGPLPDYTPPELIFSFEFTGFTLYGMLYKPHDLQPGKKYPTVLFYVGGGQVQ
 mDPRP1 601 FWATILDSAGPLPDYTPPELIFSFEFTGFTLYGMLYKPHDLQPGKKYPTVLFYVGGGQVQ

hDPRP1 660 LVNNRFGVKYFRNLNPLASLGVVVIDNDRGSGHRGLKFEGAFKYGKGQIEIDQVEGLQ
 mDPRP1 661 LVNNRFGVKYFRNLNPLASLGVVVIDNDRGSGHRGLKFEGAFKYGKGQIEIDQVEGLQ

hDPRP1 720 VIASQYDFDLDRVGTIGNSYGGYLSLMALMQRSDIFRVAIAGAPVTLMIFPYDTGYTERY
 mDPRP1 721 VIASQYDFDLDRVGTIGNSYGGYLSLMALMQRSDIFRVAIAGAPVTLMIFPYDTGYTERY

hDPRP1 780 XGHFDQNEGQYVLSVAVQAQKFPSEFNRLLLHGFLENVHFAHTSILLSFLVRAGKPY
 mDPRP1 781 XGHFDQNEGQYVLSVAVQAQKFPSEFNRLLLHGFLENVHFAHTSILLSFLVRAGKPY

hDPRP1 840 DLQIYPOERHSIRVPSGEGHYELHLLHYLQENLGSRIAALKVI
 mDPRP1 841 DLQIYPOERHSIRVPSGEGHYELHLLHYLQENLGSRIAALKVI

FIG. 2

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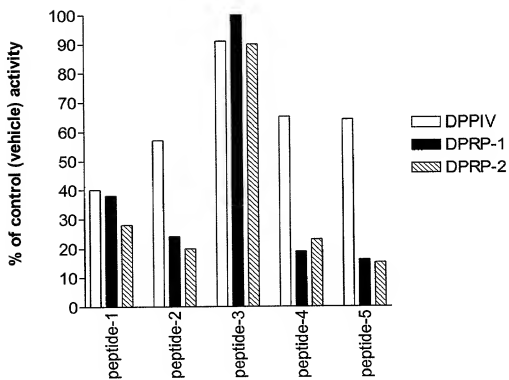


FIG. 3

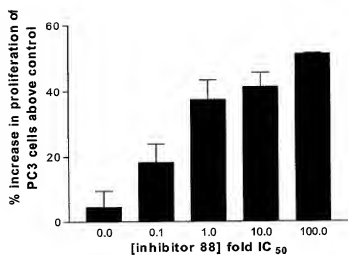


FIG. 4A

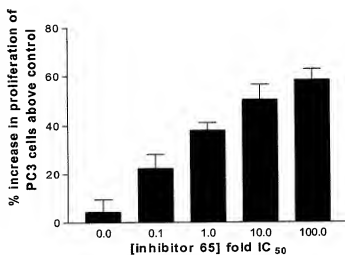


FIG. 4B

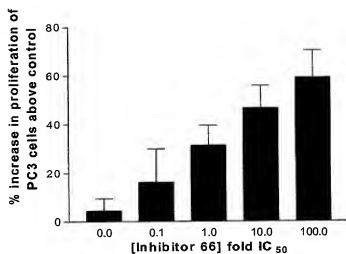


FIG. 4C